

## SEARCH REQUEST FORM

Scientific and Technical Information Center

02/13/03

Requester's Full Name: ANDY KASHNIKOW Examiner #: 60484 Date: 2/13/03  
 Art Unit: 3700 Phone Number 308-1137 Serial Number: 09/879,002  
 Mail Box and Bldg/Room Location: CP2 - 2 A01 Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

\*\*\*\*\*

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: \_\_\_\_\_

Inventors (please provide full names): \_\_\_\_\_

Earliest Priority Filing Date: \_\_\_\_\_

*\*For Sequence Searches Only\* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.*

LIT SEARCH FOR U.S. PATENT

No. 5,911,698

## STAFF USE ONLY

	Type of Search	Vendors and cost where applicable
Searcher: <u>J Sims</u>	NA Sequence (#) _____	STN _____
Searcher Phone #: <u>308-4836</u>	AA Sequence (#) _____	Dialog _____
Searcher Location: <u>ELC 3700</u>	Structure (#) _____	Questel/Orbit <input checked="" type="checkbox"/>
Date Searcher Picked Up: _____	Bibliographic <input checked="" type="checkbox"/>	Dr. Link _____
Date Completed: <u>02/13/03</u>	Litigation <input checked="" type="checkbox"/>	Lexis/Nexis <input checked="" type="checkbox"/>
Searcher Prep & Review Time: <u>10</u>	Fulltext _____	Sequence Systems _____
Clerical Prep Time: _____	Patent Family _____	WWW/Internet _____
Online Time: <u>10</u>	Other _____	Other (specify) _____

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT

5911698

June 15, 1999

Treatment for cardiovascular and related diseases

CERT-CORRECTION: April 10, 2001 - (O.G. April 10, 2001) a Certificate of Correction was issued for this patent

APPL-NO: 849543 (08)

FILED-DATE: June 10, 1997

GRANTED-DATE: June 15, 1999

CORE TERMS: plasma, blood, solvent, patient, fraction, animal, serum, delipidated, cholesterol, lipid ...

ENGLISH-ABST:

A method for the removal of cholesterol, triglycerides and other lipids from animal plasma, serum or other suitable blood fractions, as a discontinuous flow system, the method comprising withdrawing blood from a subject, separating the required fraction from the blood and mixing with a solvent mixture which extracts the lipids from the fraction, after which the delipidated fraction is recombined with the blood cells and returned to the subject, wherein the solvent extraction step is carried out separately and remote from the subject. The delipidated fraction is washed with a second solvent before being recombined with the blood cells. To ensure that the delipidated fraction is free from all extraction solvent, the fraction is mixed with an absorbent specific for the solvent that is being removed. The preferred absorbent is a macroporous polymeric bead contained in the pores of a sintered glass or plastic sphere, the being capable of absorbing organic molecules from an aqueous solution. By treating the plasma, serum or other suitable blood fraction of a patient by these methods, the blood rheology of a patient with impaired blood circulation can be improved. Further, a rapid regression of coronary atherosclerosis occurs.

5911698 OR 5,911,698



Your search request has found no CASES.

To edit the above request, use the arrow keys. Be sure to move the cursor to the end of the request before you enter it.

To enter a new search request, type it and press the ENTER key.

What you enter will be Search Level 1.

For further explanation, press the H key (for HELP) and then the ENTER key.

5911698 OR 5,911,698

Your search request has found no ITEMS. ✓

To edit the above request, use the arrow keys. Be sure to move the cursor to the end of the request before you enter it.

To enter a new search request, type it and press the ENTER key.

What you enter will be Search Level 1.

For further explanation, press the H key (for HELP) and then the ENTER key.

?file pluspat-Questel Orbit

?us5911698/pn

1/1 PLUSPAT - (C) QUESTEL-ORBIT

PN - US5911698 A 19990615 [US5911698]

TI - (A) Treatment for cardiovascular and related diseases

PA - (A) ARUBA INTERNATIONAL PTY LTD (AU)

PAO - Aruba International Pty. Ltd., Queensland [AU]

IN - (A) CHAM KARIM ROUAN (AU)

AP - US84954397 19970610 [1997US-0849543]

FD - PCT/AU95/00875 19951222 [1995WO-AU00875]

- WO96/19250 19960627 [WO9619250]

PR - WOAU9500875 19951222 [1995WO-AU00875]

IC - (A) A61M-035/00

EC - A61K-035/14

- A61M-001/34F

ICO - K61M-001/34F1F6

PCL - ORIGINAL (O) : 604005030; CROSS-REFERENCE (X) : 210645000 210651000  
422044000

DT - Basic

CT - US4648974; US4895558; US4908354; US4935204; US5279540; US5401415;  
US5424068; US5679260; WO9503840

STG - (A) United States patent

AB - A method for the removal of cholesterol, triglycerides and other lipids from animal plasma, serum or other suitable blood fractions, as a discontinuous flow system, the method comprising withdrawing blood from a subject, separating the required fraction from the blood and mixing with a solvent mixture which extracts the lipids from the fraction, after which the delipidated fraction is recombined with the blood cells and returned to the subject, wherein the solvent extraction step is carried out separately and remote from the subject. The delipidated fraction is washed with a second solvent before being recombined with the blood cells. To ensure that the delipidated fraction is free from all extraction solvent, the fraction is mixed with an absorbent specific for the solvent that is being removed. The preferred absorbent is a macroporous polymeric bead contained in the pores of a sintered glass or plastic sphere, the being capable of absorbing organic molecules from an aqueous solution. By treating the plasma, serum or other suitable blood fraction of a patient by these methods, the blood rheology of a patient with impaired blood circulation can be improved. Further, a rapid regression of coronary atherosclerosis occurs.

1/1 LGST - (C) LEGSTAT

PN - US 5911698 [US5911698]

AP - US 849543/97 19970610 [1997US-0849543]

DT - US-P

ACT - 19970610 US/AE-A

APPLICATION DATA (PATENT)

{US 849543/97 19970610 [1997US-0849543]}

- 19970610 US/AS02

ASSIGNMENT OF ASSIGNOR'S INTEREST

ARUBA INTERNATIONAL PTY LTD. 14/1465 IPSWICH ROAD ROCKLEA, QUEENSLAND  
4106, AUST \* CHAM, KARIM ROUAN : 19970528

- 19990615 US/A

PATENT

- 20010410 US/CC  
CERTIFICATE OF CORRECTION  
UP - 2001-19

1/1 CRXX - (C) CLAIMS/RRX  
PN - 5,911,698 A 19990615 [US5911698]  
PA - Aruba International Pty Ltd AU  
ACT - 20010410 CERTIFICATE OF CORRECTION

1/1 PAST - (C) Thomson Derwent  
AN - 200115-000917  
PN - 5911698 A [US5911698]  
OG - 2001-04-10  
ACT - CERTIFICATE OF CORRECTION

Patent family search:  
Selected file: PLUSPAT

?fam us5911698/pn

1/7 PLUSPAT - (C) QUESTEL-ORBIT  
PN - AUPN030794 D0 19950127 [AU9400307]  
STG - (D0) Filing Application  
TI - (D0) Discontinuous plasma or serum delipidation  
PA - (D0) ARUBA INTERNATIONAL PTY LTD  
AP - AUPN030794 19941222 [1994AU-0000307]  
PR - AUPN030794 19941222 [1994AU-0000307]

2/7 PLUSPAT - (C) QUESTEL-ORBIT  
PN - AU4323696 A 19960710 [AU9643236]  
STG - (A) Open to public inspection  
TI - (A) Treatment for cardiovascular and related diseases  
PA - (A) ARUBA INTERNATIONAL PTY LTD  
IN - (A) CHAM KARIM ROUAN  
IC - (A) A61M-001/36  
PN2 - AU695826 B2 19980820 [AU-695826]  
STG2 - (B2) Patent preceded by A1  
TI2 - (B2) Treatment for cardiovascular and related diseases  
PA2 - (B2) ARUBA INTERNATIONAL PTY LTD  
IN2 - (B2) CHAM KARIM ROUAN  
IC2 - (B2) A61M-001/36  
AP - AU4323696 19951222 [1996AU-0043236]  
PR - AU4323696 19951222 [1996AU-0043236]  
- WOAU9500875 19951222 [1995WO-AU00875]  
- AUPN030794 19941222 [1994AU-0000307]

3/7 PLUSPAT - (C) QUESTEL-ORBIT  
PN - CA2208059 A1 19960627 [CA2208059]  
STG - (A1) Application laid open  
TI - (A1) A TREATMENT FOR CARDIOVASCULAR AND RELATED DISEASES  
OTI - (A1) TRAITEMENT DES MALADIES CARDIO-VASCULAIRES ET ASSOCIEES  
PA - (A1) ARUBA INTERNATIONAL PTY LTD (AU)  
IN - (A1) CHAM KARIM ROUAN (AU)  
IC - (A1) A61K-035/14 A61M-001/36  
LA - ENGLISH (ENG)  
AP - CA2208059 19951222 [1995CA-2208059]  
PR - AUPN030794 19941222 [1994AU-0000307]

4/7 PLUSPAT - (C) QUESTEL-ORBIT

PN - EP0799061 A1 19971008 [EP-799061]  
STG - (A1) Public. Of applic. With search report  
TI - (A1) TREATMENT FOR CARDIOVASCULAR AND RELATED DISEASES  
OTI - (A1) BEHANDLUNG FUR KARDIOVASKULARE UND DAMIT VERBUNDENE KRANKHEITEN  
- (A1) TRAITEMENT DES MALADIES CARDIO-VASCULAIRES ET ASSOCIEES  
PA - (A1) ARUBA INTERNATIONAL PTY LTD (AU)  
IN - (A1) CHAM KARIM ROUAN (AU)  
IC - (A1) A61M-001/36  
PN2 - EP0799061 A4 20020529 [EP-799061]  
STG2 - (A4) Publ. Of suppl. search report  
TI2 - (A4) TREATMENT FOR CARDIOVASCULAR AND RELATED DISEASES  
OTI2 - (A4) BEHANDLUNG FUR KARDIOVASKULARE UND DAMIT VERBUNDENE KRANKHEITEN  
- (A4) TRAITEMENT DES MALADIES CARDIO-VASCULAIRES ET ASSOCIEES  
PA2 - (A4) ARUBA INTERNAT PTY LTD (AU)  
IN2 - (A4) CHAM KARIM ROUAN (AU)  
IC2 - (A4) A61M-001/36  
LA - ENGLISH (ENG)  
AP - EP95941995 19951222 [1995EP-0941995]  
PR - WOAU9500875 19951222 [1995WO-AU00875]  
- AUPN030794 19941222 [1994AU-0000307]  
DS - AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE

5/7 PLUSPAT - (C) QUESTEL-ORBIT

PN - JP10510739 T 19981020 [JP10510739]  
STG - (T) Unexam. Pat. Appl. On foreign appl.  
IC - (T) A61M-001/36  
AP - JP51936895D 19951222 [1995JP-0519368]  
PR - WOAU9500875 19951222 [1995WO-AU00875]  
- AUPN030794 19941222 [1994AU-0000307]

6/7 PLUSPAT - (C) QUESTEL-ORBIT

PN - US5911698 A 19990615 [US5911698]  
STG - (A) United States patent  
TI - (A) Treatment for cardiovascular and related diseases  
PA - (A) ARUBA INTERNATIONAL PTY LTD (AU)  
PA0 - Aruba International Pty. Ltd., Queensland [AU]  
IN - (A) CHAM KARIM ROUAN (AU)  
IC - (A) A61M-035/00  
AP - US84954397 19970610 [1997US-0849543]  
PR - WOAU9500875 19951222 [1995WO-AU00875]  
EC - A61K-035/14  
- A61M-001/34F  
ICO - K61M-001/34F1F6  
PCL - ORIGINAL (O) : 604005030; CROSS-REFERENCE (X) : 210645000 210651000  
422044000  
DT - Basic

7/7 PLUSPAT - (C) QUESTEL-ORBIT

PN - WO9619250 A1 19960627 [WO9619250]  
STG - (A1) Publ. Of int. Appl. With int. Search rep  
TI - (A1) TREATMENT FOR CARDIOVASCULAR AND RELATED DISEASES  
OTI - (A1) TRAITEMENT DES MALADIES CARDIO-VASCULAIRES ET ASSOCIEES  
PA - (A1) ARUBA INTERNATIONAL PTY LTD (AU); CHAM KARIM ROUAN (AU)  
IN - (A1) CHAM KARIM ROUAN (AU)  
IC - (A1) A61M-001/36

LA - ENGLISH (ENG)  
AP - WOAU9500875 19951222 [1995WO-AU00875]  
PR - AUPN030794 19941222 [1994AU-0000307]  
EC - A61M-001/34F  
ICO - K61M-001/34F1F6  
- K61M-202/04E10  
DS - AL; AM; AT; AU; BB; BG; BR; BY; CA; CH; CN; CZ; DE; DK; EE; ES; FI; GB;  
GE; HU; IS; JP; KE; KG; KP; KR; KZ; LK; LR; LS; LT; LU; LV; MD; MG; MK;  
MN; MW; MX; NO; NZ; PL; PT; RO; RU; SD; SE; SG; SI; SK; TJ; TM; TT; UA;  
UG; US; UZ; VN; ARIPO Patent (KE; LS; MW; SD; SZ; UG); European Patent  
(AT; BE; CH; DE; DK; ES; FR; GB; GR; IE; IT; LU; MC; NL; PT; SE); OAPI  
Patent (BF; BJ; CF; CG; CI; CM; GA; GN; ML; MR; NE; SN; TD; TG)  
DT - Basic

1/5 LEGALI - (C) LEGSTAT  
PN - US 5911698 [US5911698]  
AP - US 849543/97 19970610 [1997US-0849543]  
DT - US-P  
ACTE- 19970610 US/AE-A  
APPLICATION DATA (PATENT)  
{US 849543/97 19970610 [1997US-0849543]}  
- 19970610 US/AS02  
ASSIGNMENT OF ASSIGNOR'S INTEREST  
ARUBA INTERNATIONAL PTY LTD. 14/1465 IPSWICH ROAD ROCKLEA, QUEENSLAND  
4106, AUST \* CHAM, KARIM ROUAN : 19970528  
- 19990615 US/A  
PATENT  
- 20010410 US/CC  
CERTIFICATE OF CORRECTION  
UP - 2001-19

2/5 LEGALI - (C) LEGSTAT  
PN - US 849543/97  
AP - US 849543/97 - [1997US-0849543]  
DT - US-A  
ACTE- 19970610 US/REFW-P  
CORRESPONDS TO PCT APPLICATION  
<WO 9619250> [WO9619250]  
UP - 1998-31

3/5 LEGALI - (C) LEGSTAT  
PN - CA 2208059 [CA2208059]  
DT - CA-P  
ACTE- 19970618 CA/REFW-P  
CORRESPONDS TO PCT APPLICATION  
<WO 9619250> [WO9619250]  
UP - 1998-31

4/5 LEGALI - (C) LEGSTAT  
PN - EP 799061 [EP-799061]  
AP - EP 95941995/95 19951222 [1995EP-0941995]  
DT - EP-P  
ACTE- 19951222 EP/AE-A  
EP-APPLICATION  
{EP 95941995/95 19951222 [1995EP-0941995]}  
- 19971008 EP/AK-A1 [+]  
DESIGNATED CONTRACTING STATES IN AN APPLICATION WITH SEARCH REPORT:



AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE  
 - 19971008 EP/A1 [+] PUBLICATION OF APPLICATION WITH SEARCH REPORT  
 - 19971008 EP/17P [+] REQUEST FOR EXAMINATION FILED  
 970718  
 - 20020529 EP/AK-A4 [+] DESIGNATED CONTRACTING STATES MENTIONED IN A SUPPLEMENTARY SEARCH  
 REPORT:  
 AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE  
 - 20020529 EP/A4 [+] SUPPLEMENTARY SEARCH REPORT  
 20020412  
 - 20021030 EP/RIN1 INVENTOR (CORRECTION)  
 CHAM, KARIM, ROUAN \* CHAM, BILL E.  
 - 20021204 EP/RIN1 INVENTOR (CORRECTION)  
 CHAM, KARIM, ROUAN \* CHAM, BILL E.  
 - 20021204 EP/17Q [+] FIRST EXAMINATION REPORT  
 20021021  
 UP - 2002-49  
  
 5/5 LEGALI - (C) LEGSTAT  
 PN - WO 9619250 [WO9619250]  
 AP - WO 9500875/95 (AU) 19951222 [1995WO-AU00875]  
 DT - WO-P  
 ACTE- 19951222 WO/AE-A APPLICATION DATA  
 {WO 9500875/95 (AU) 19951222 [1995WO-AU00875]}  
 - 19960627 WO/AK-A1 [+] DESIGNATED STATES CITED IN A PUBLISHED APPLICATION WITH SEARCH REPORT  
 AL AM AT AU BB BG BR BY CA CH CN CZ DE DK EE ES FI GB GE HU IS JP KE  
 KG KP KR KZ LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD  
 SE SG SI SK TJ TM TT UA UG US UZ VN  
 - 19960627 WO/AL-A1 [+] DESIGNATED COUNTRIES FOR REGIONAL PATENTS CITED IN A PUBLISHED  
 APPLICATION WITH SEARCH REPORT  
 KE LS MW SD SZ UG AT BE CH DE DK ES FR GB GR IE IT LU MC NL PT SE BF  
 BJ CF CG CI CM GA GN ML MR NE SN TD TG  
 - 19960627 WO/A1 [+] PUBLICATION OF THE INTERNATIONAL APPLICATION WITH THE INTERNATIONAL  
 SEARCH REPORT  
 - 19960919 WO/DFPE REQUEST FOR PRELIMINARY EXAMINATION FILED PRIOR TO EXPIRATION OF 19TH  
 MONTH FROM PRIORITY DATE  
 - 19960925 WO/121 EP: PCT APP. ART. 158 (1)  
 - 19970610 WO/ENP-A ENTRY INTO THE NATIONAL PHASE IN:  
 <US 97849543 19970610>  
 - 19970618 WO/ENP-AA ENTRY INTO THE NATIONAL PHASE IN:  
 <CA 2208059>  
 - 19971002 WO/REG; DE/8642 [-] DE: WITHDRAWAL

<DE>

UP - 1998-31